

WHAT IS CLAIMED IS:

1. A communication system performing communication control of information comprising:

- 5 a communication terminal device; and
a communication control device,

said communication terminal device performing a terminal-side buffer management control and comprising:

- a correspondence table management unit creating,
10 based on table forming information sent from an upper device, a correspondence table defining a correspondence between an in-buffer information amount indicating an amount of information stored in a buffer and a buffer status value indicating the in-buffer information amount
15 in a hierarchical expression;

a buffer status value acquiring unit referring to the correspondence table and acquiring a buffer status value of a buffer that issues a transmission event;

- a notice information setting unit comparing, with
20 regard to an identical buffer, a size relation between status information about past buffer status values for the buffer and a current buffer status value acquired, and setting notice information on a bit basis determined by the size relation;

- 25 a terminal-side notice information management memory storing and managing the notice information as the status information; and

102760 6652660
a notice information sending unit sending the notice information by using one slot or a plurality of slots to notify the upper device of the buffer status,

said communication control device performing an
5 office-side buffer management control and comprising:

a table forming information sending unit creating the table forming information and sending the table forming information to said communication terminal device;

a control-side notice information management
10 memory receiving and managing the notice information sent by said communication terminal device; and

a buffer status recognizing unit recognizing the buffer status of said communication terminal device from a content of the control-side notice information management
15 memory.

2. The communication system according to claim 1, wherein:

said communication terminal device divides the
20 buffer into groups, and performs the terminal-side buffer management control on the group basis; and

said communication control device performs the office-side buffer management control on the group basis.

25 3. The communication system according to claim 1, wherein:

said communication terminal device performs the

terminal-side buffer management control on the basis of a
buffer usage ratio; and

said communication control device performs the
office-side buffer management control on the basis of the
5 buffer usage ratio.

4. A communication terminal device communicating
with an office side comprising:

a correspondence table management unit creating,
10 based on table forming information sent from an upper
device, a correspondence table defining a correspondence
between an in-buffer information amount indicating an
amount of information stored in a buffer and a buffer
status value indicating the in-buffer information amount
15 in a hierarchical expression;

a buffer status value acquiring unit referring to
the correspondence table and acquiring a buffer status
value of a buffer that issues a transmission event;

a notice information setting unit comparing, with
20 regard to an identical buffer, a size relation between
status information about past buffer status values for the
buffer and a current buffer status value acquired, and
setting notice information on a bit basis determined by
the size relation;

25 a terminal-side notice information management
memory storing and managing the notice information as the
status information; and

a notice information sending unit sending the notice information by using one slot or a plurality of slots to notify the upper device of the buffer status.

5 5. A communication control device communicating with a terminal side comprising:

a table forming information sending unit creating a table forming information and sending the table forming information to a communication terminal device;

10 a control-side notice information management memory receiving and managing a notice information sent by the communication terminal device; and

15 a buffer status recognizing unit recognizing a buffer status of the communication terminal device from a content of the control-side notice information management memory.